AMENDMENTS TO THE CLAIMS

This listing of claims replaces all previous listings, and versions, of claims in the application.

Listing of Claims:

1–17. (Canceled)

18. (Currently amended) A method of delivering a bioactive substance within a vessel, the method comprising:

providing apparatus comprising an anchor reversibly expandable from a delivery configuration to a deployed configuration, and an eluting material adapted to elute a bioactive substance, the eluting material comprising either a swellable pellet or a compressible foam having a compressed delivery state and an expanded state in situ ~~at least one of the expandable anchor and eluting material including an anti-clotting agent~~;

expanding the anchor to the deployed configuration within the vessel, the anchor engaging an interior wall of the vessel;

permitting the eluting material to expand in volume within the anchor;

eluting the bioactive substance from the eluting material into blood flowing through the eluting material and through the anchor~~;~~

~~after a predetermined period, advancing a catheter within the vessel and engaging the anchor;~~

~~collapsing the anchor to the delivery configuration; and~~

~~removing the apparatus from the patient's vessel~~.

19. (Previously presented) The method of claim 18 further comprising, prior to expanding the anchor:

disposing the anchor in the delivery configuration within a distal end of a lumen of a delivery sheath; and

advancing the distal end of the delivery sheath to a delivery site within the vessel.

20. (Previously presented) The method of claim 18, wherein eluting the bioactive substance comprises eluting a substance chosen from the group consisting of gene therapy vectors, gene therapy sequences, and drugs.

21. (Previously presented) The method of claim 19, further comprising:

retracting the anchor within a distal end of the catheter.

22. (Previously presented) The method of claim 19, further comprising, after expanding the anchor, removing the delivery sheath from the patient's vessel.

23. (Previously presented) The method of claim 18, wherein providing apparatus comprising an anchor comprises providing a resiliently expandable cage.

24. (Currently amended) The method of claim 18, further comprising:

after a predetermined period, advancing a catheter within the vessel and engaging the anchor;

collapsing the anchor to the delivery configuration; and

removing the apparatus from the patient's ~~vessel wherein providing apparatus comprising an eluting material adapted to elute a bioactive substance comprises providing a material chosen from the group consisting of a spongy material, a floppy elongated member adapted for multiple turns, and a swellable pellet~~.

25. (Canceled)

26. (Currently amended) An intravascular device for delivering a bioactive substance into systemic circulation of an animal, the device comprising:

an anchor immobilizable to an inner wall of an intact blood vessel which, when immobilized in the blood vessel, permits blood in the vessel to pass therethrough; and

an eluting material adapted to elute the bioactive substance, which when introduced into the blood vessel is retained by the anchor and releases the bioactive substance into blood flowing therethrough, the eluting material comprising either a water-swellable pellet or a compressible foam; ~~and~~

~~an anti-clotting agent disposed on at least one of the anchor and the eluting material~~.

27. (Previously presented) The device of claim 26, wherein the anchor comprises at least one element biased in a radially outward direction when immobilized in the blood vessel.

28. (Previously presented) The device of claim 26, wherein the anchor is a stent.

29. (Previously presented) The device of claim 26, wherein the anchor comprises a head and a plurality of filaments attached by one end to the head.

30. (Previously presented) The device of claim 29, wherein the anchor is an embolism anti-migration filter.

31. (Previously presented) The device of claim 26, wherein the anchor comprises a receptacle for receiving the eluting material.

32. (Canceled)

33. (Currently amended) The device of claim 32, wherein the compressible foam ~~spongy material comprises foam~~ is porous.

34-38. (Canceled)

39. (Previously Presented) The device of claim 26, wherein the bioactive substance is a cardiovascular drug or a coagulation factor.

40. (Previously Presented) The device of claim 26, wherein the eluting material comprises a plurality of pre-selected drugs which are released into blood.

41. (Previously Presented) The device of claim 26, wherein the eluting material releases the bioactive substance over a pre-selected period of time.

42-60. (Canceled)